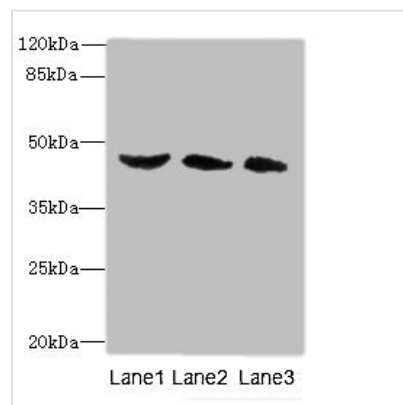


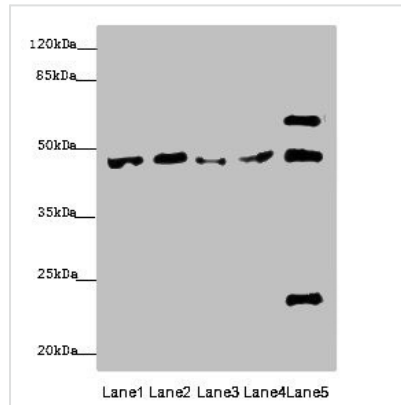
BMP4 Antibody

Product Code	CAC07069
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot NO.	P12644
Immunogen	Recombinant human Bone morphogenetic protein 4 protein (303-408AA)
Raised In	Rabbit
Species Reactivity	Human,Mouse,Rat,Zebrafish
Tested Applications	ELISA,WB,IHC;Recommended dilution:WB:1:500-1:5000,IHC:1:20-1:200
Relevance	Induces cartilage and bone formation. Also act in mesoderm induction, tooth development, limb formation and fracture repair. Acts in concert with PTHLH/PTHRP to stimulate ductal outgrowth during embryonic mammary development and to inhibit hair follicle induction.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Purification Method	>95%,Protein G purified
Isotype	IgG
Clonality	Polyclonal
Alias	BMP-4,Bone morphogenetic protein 2B,BMP-2B,BMP4,BMP2B, DVR4
Product Type	Polyclonal Antibody
Species	Human
Research Area	Developmental Biology

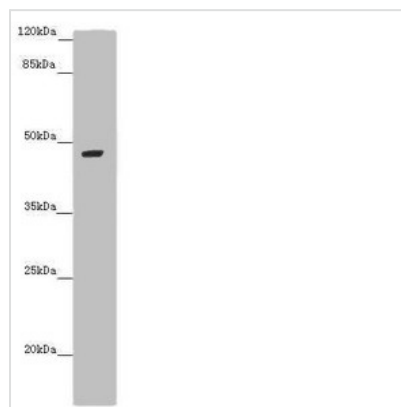
Image



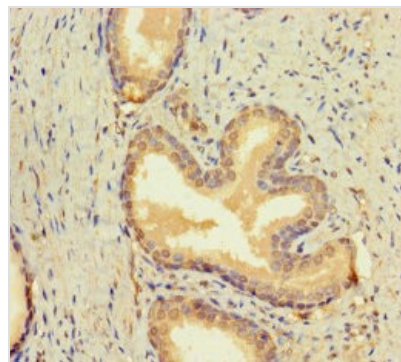
Western blot
 All lanes: Bone morphogenetic protein 4 antibody at 10ug/ml
 Lane 1 : Rat liver tissue
 Lane 2 : A549 whole cell lysate
 Lane 3 : Hela whole cell lysate
 Secondary
 Goat polyclonal to Rabbit IgG at 1/10000 dilution
 Predicted band size: 47 kDa
 Observed band size: 47 kDa



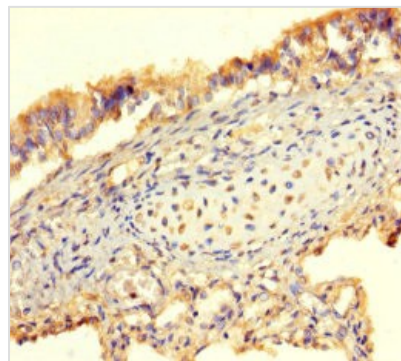
Western blot
All lanes: BMP4 antibody at 10ug/ml
Lane 1 : Mouse kidney tissue
Lane 2 : Mouse liver tissue
Lane 3 : Rats liver tissue
Lane 4 : Rats kidney tissue
Lane 5 : Zebrafish lysate
Secondary
Goat polyclonal to Rabbit IgG at 1/10000 dilution
Predicted band size: 47 kDa
Observed band size: 23,47,59 kDa



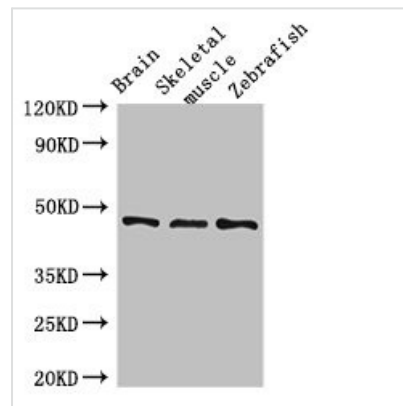
Western blot
All lanes: BMP-4 antibody at 6 ug/ml+ Mouse brain tissue
Secondary
Goat polyclonal to rabbit IgG at 1/10000 dilution
Predicted band size: 47 kDa
Observed band size: 47 kDa



Immunohistochemistry of paraffin-embedded human prostate cancer using CAC07069 at dilution of 1:100



Immunohistochemistry of paraffin-embedded human lung tissue using CAC07069 at dilution of 1:100



Western Blot

Positive WB detected in: Mouse brain tissue,
Mouse skeletal muscle tissue, Zebrafish

All lanes: Bmp4 antibody at 3ug/ml

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 47 kDa

Observed band size: 47 kDa

Target Details

This protein is a member of the bone morphogenetic protein family which is part of the transforming growth factor-beta superfamily. The superfamily includes large families of growth and differentiation factors. Bone morphogenetic proteins were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis *in vivo* in an extraskeletal site. This particular family member plays an important role in the onset of endochondral bone formation in humans, and a reduction in expression has been associated with a variety of bone diseases, including the heritable disorder Fibrodysplasia Ossificans Progressiva. Alternative splicing in the 5 untranslated regions of this gene has been described and three variants are described, all encoding an identical protein.